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FIG. 1

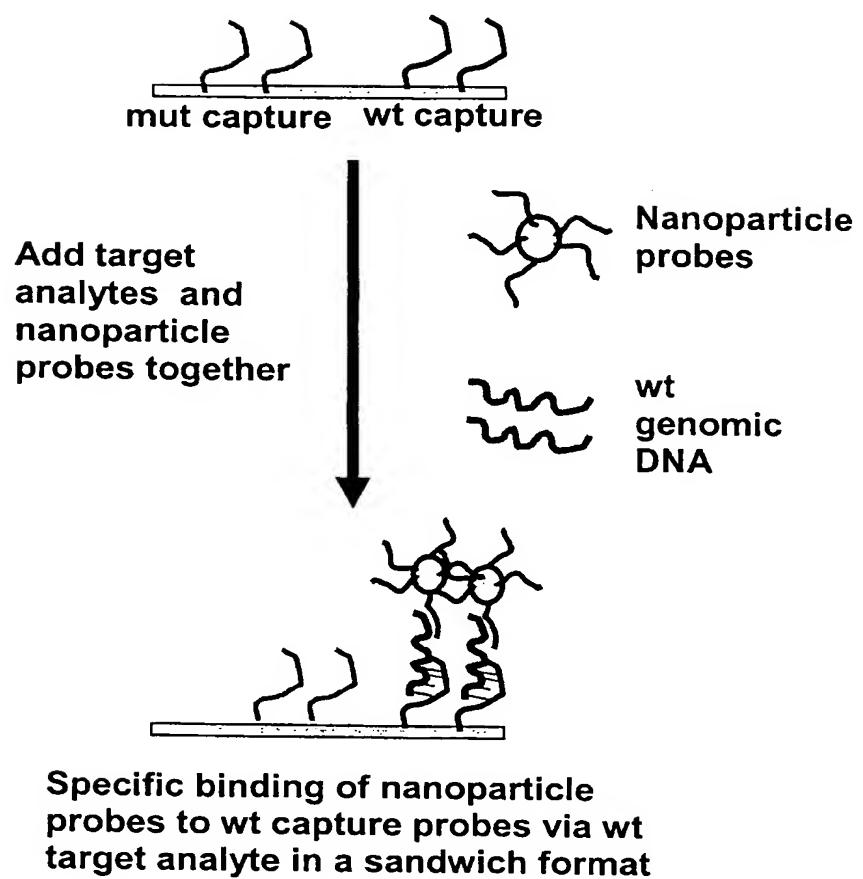


FIG. 2

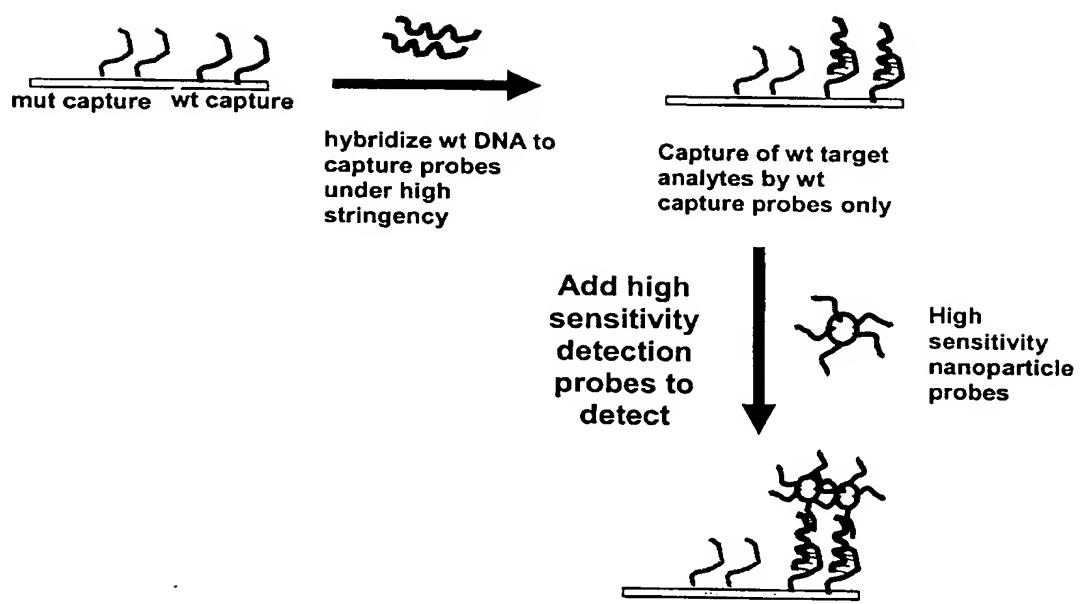


FIG. 3

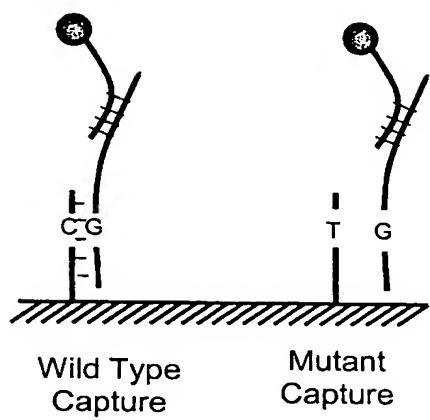
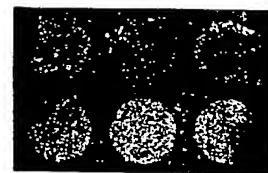


FIG. 4

A

10ug of
normal human
genomic DNA

Mut
WT



B

10ug of
Salmon sperm
DNA

Mut
WT



C

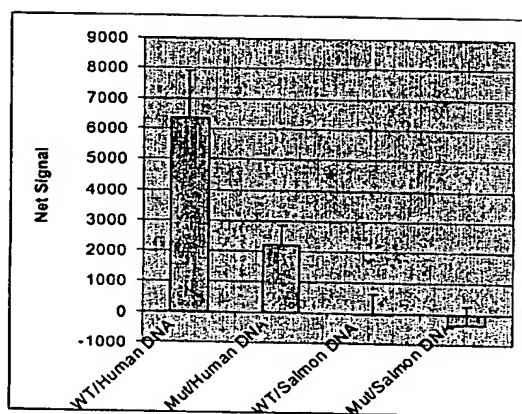


FIG. 5

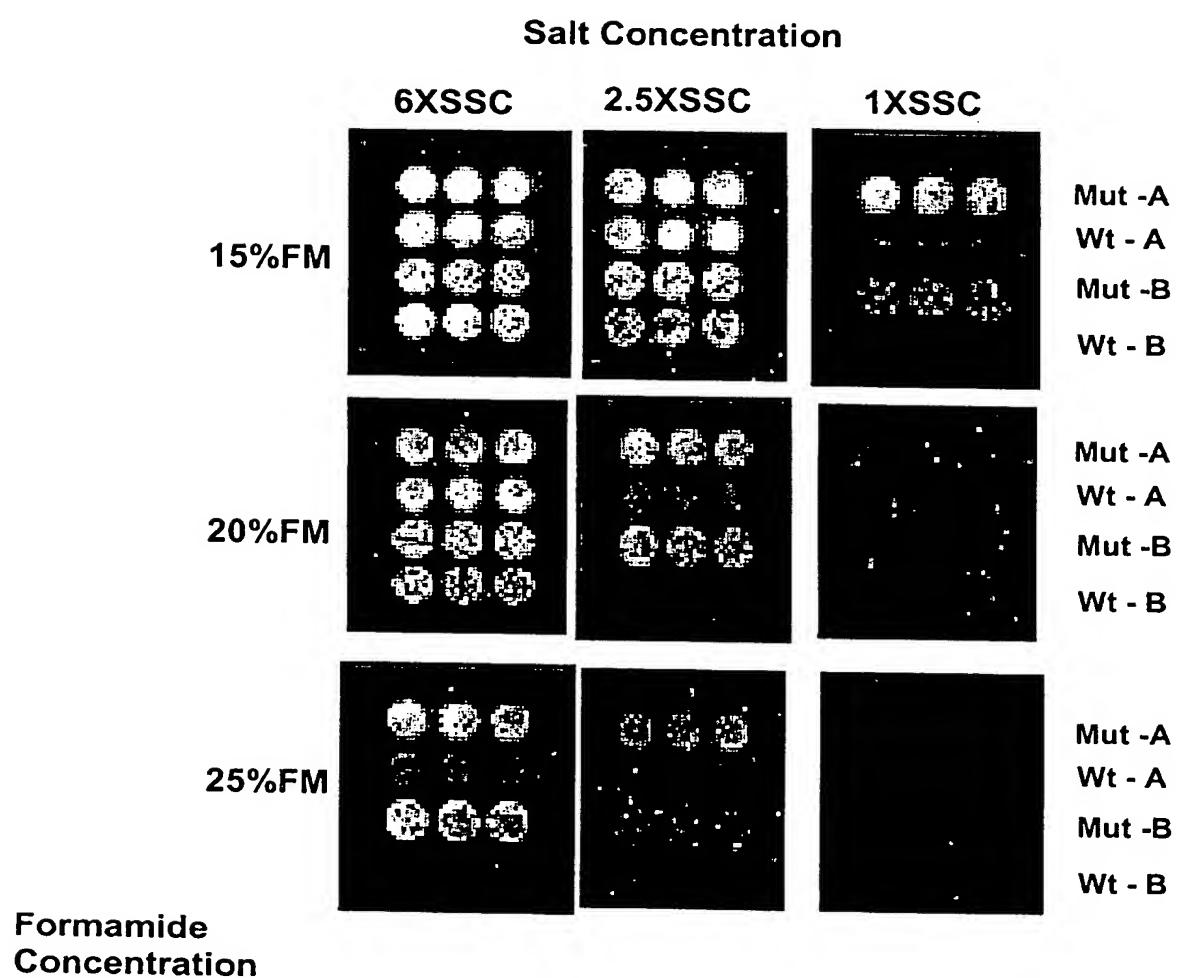


FIG. 6

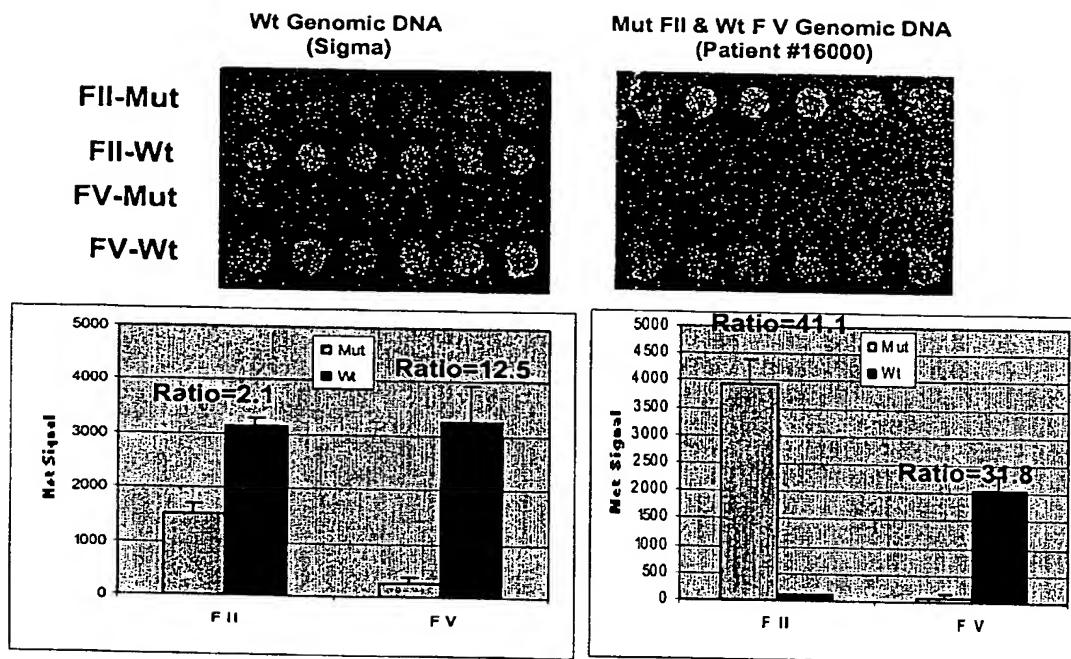
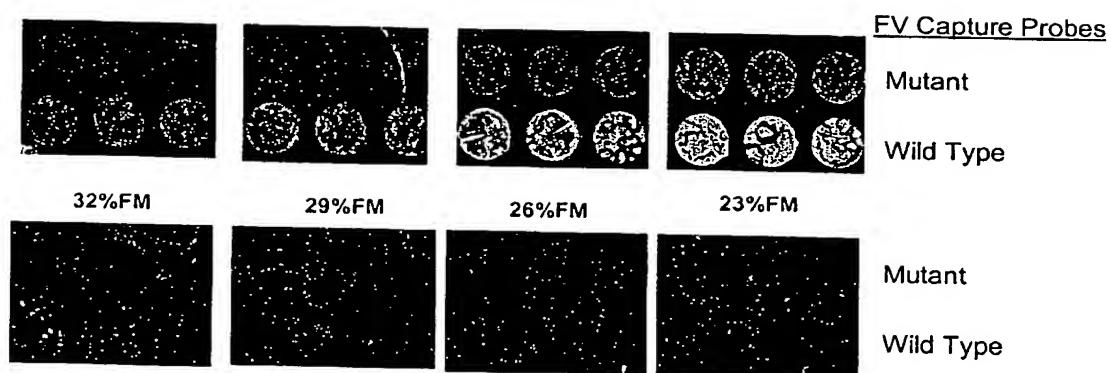


FIG. 7

A



B

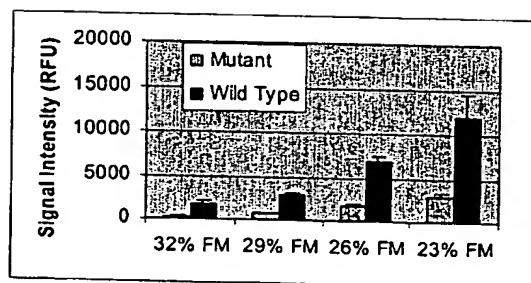


FIG. 8

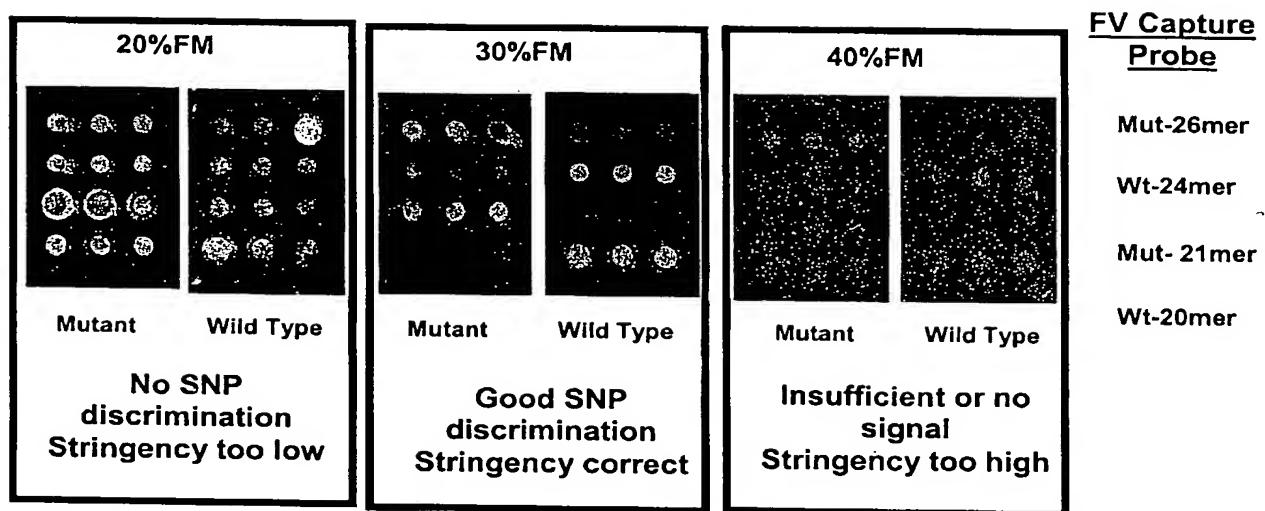


FIG. 9

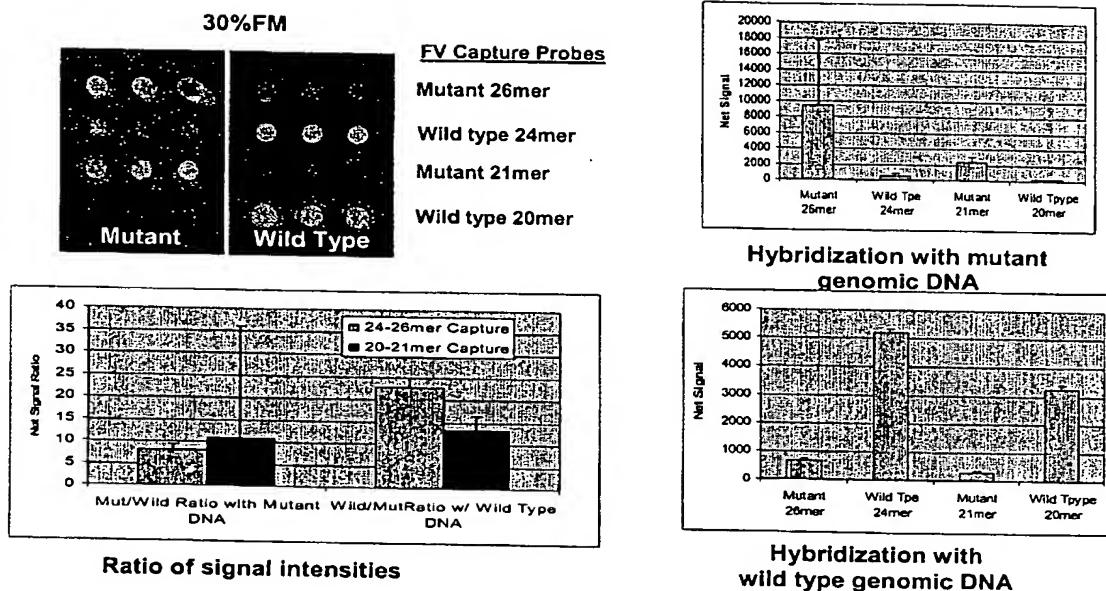


FIG. 10

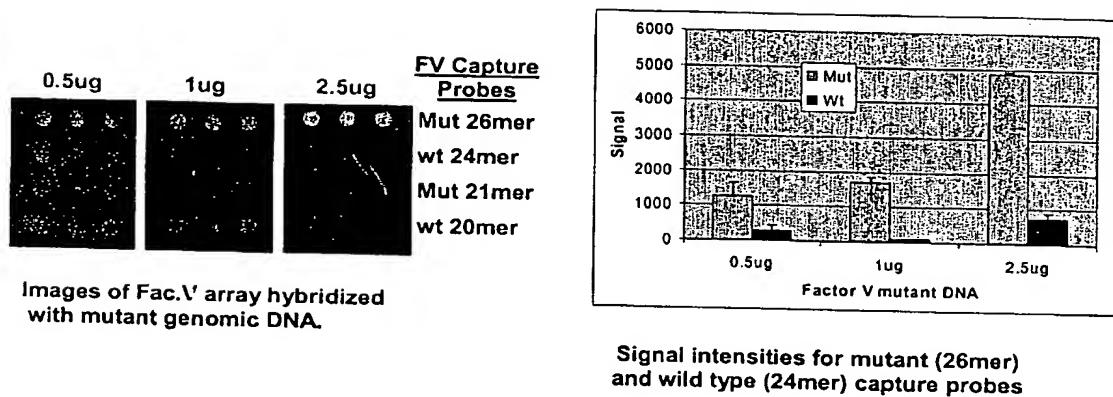


FIG. 11

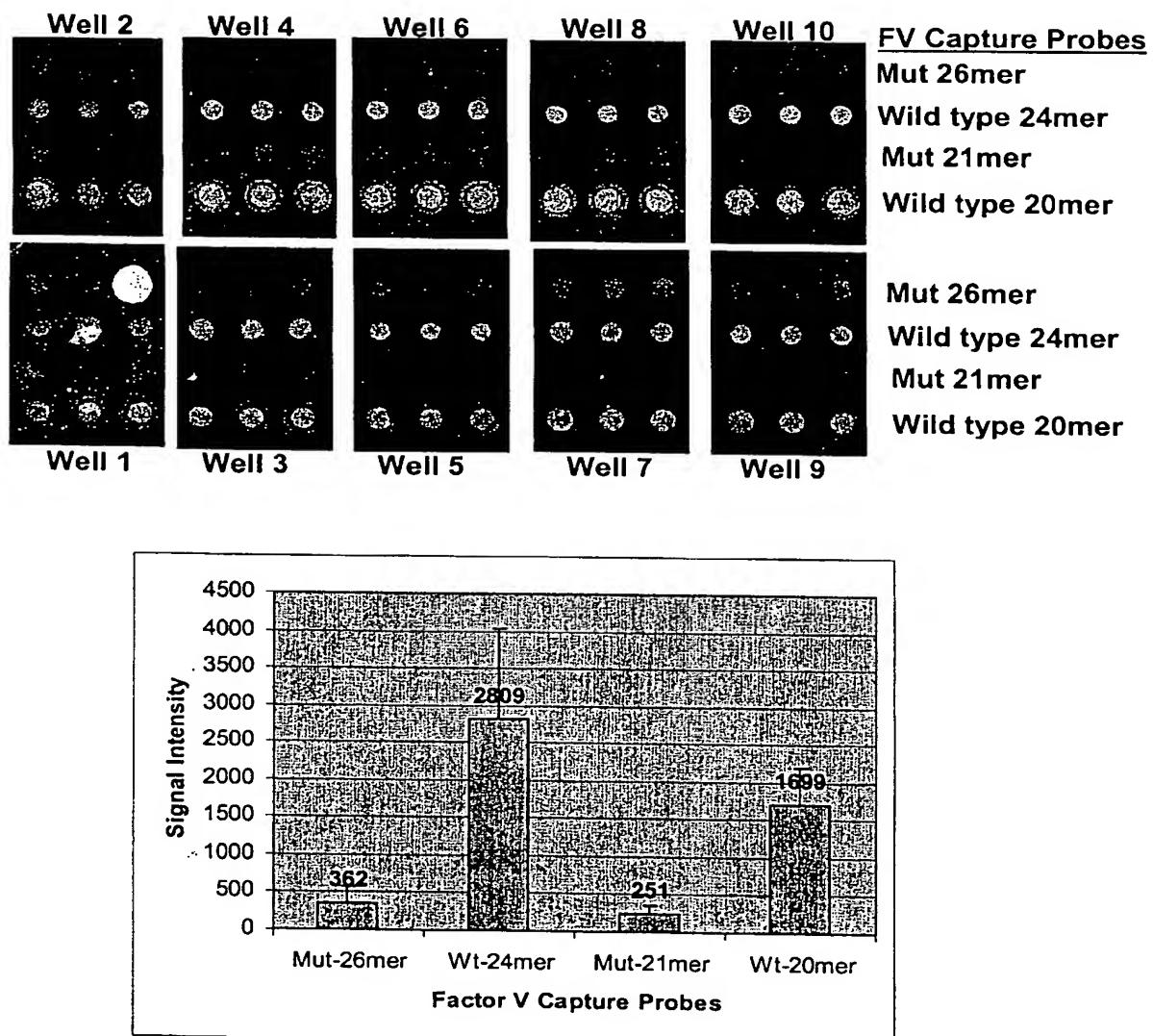


FIG. 12

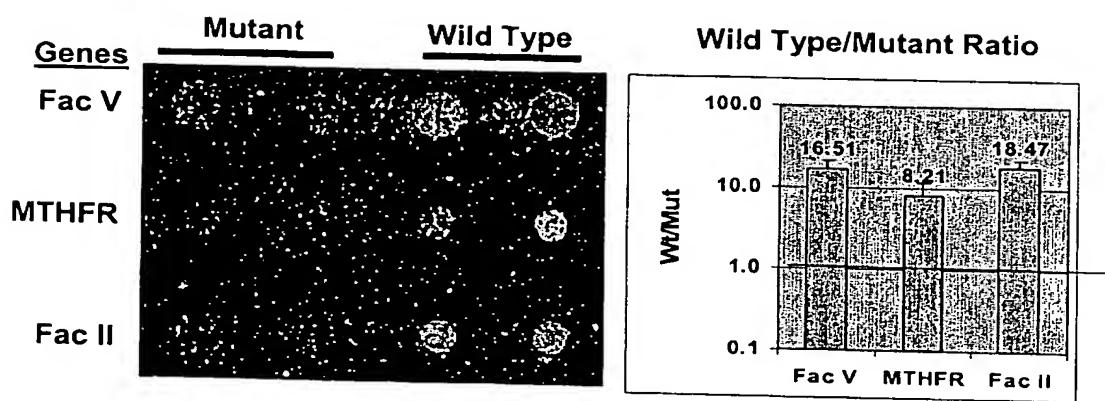


FIG. 13

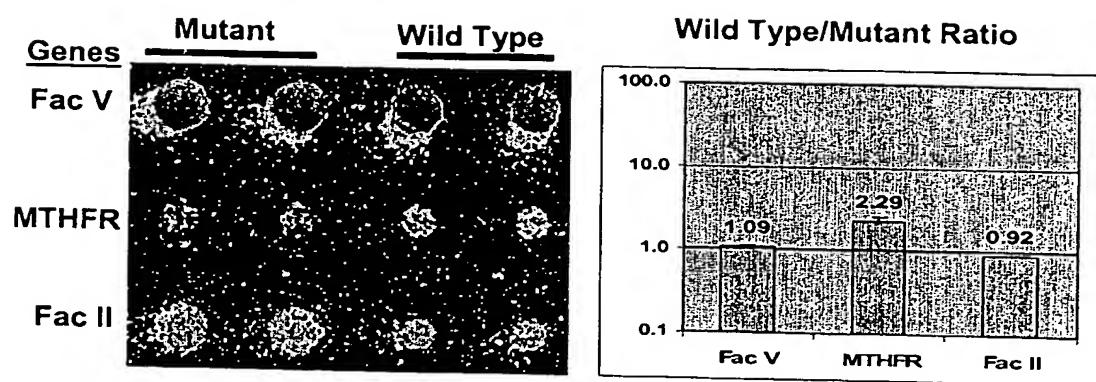


FIG. 14

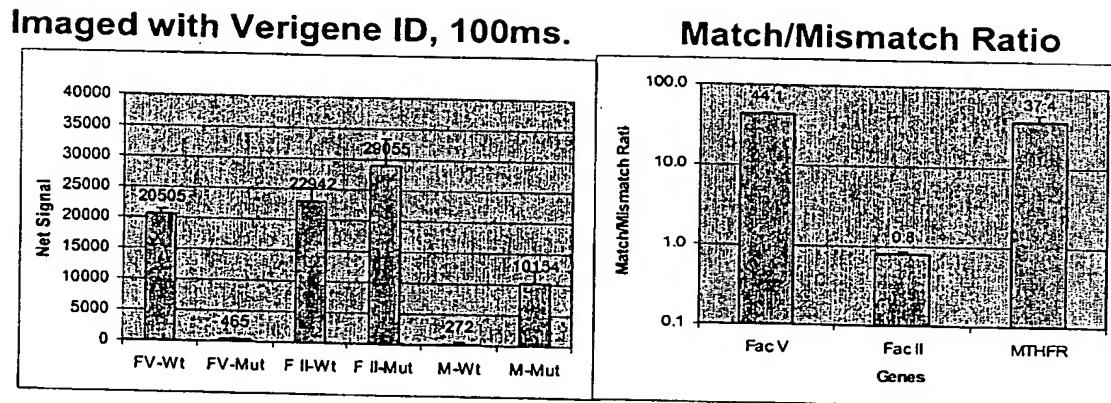
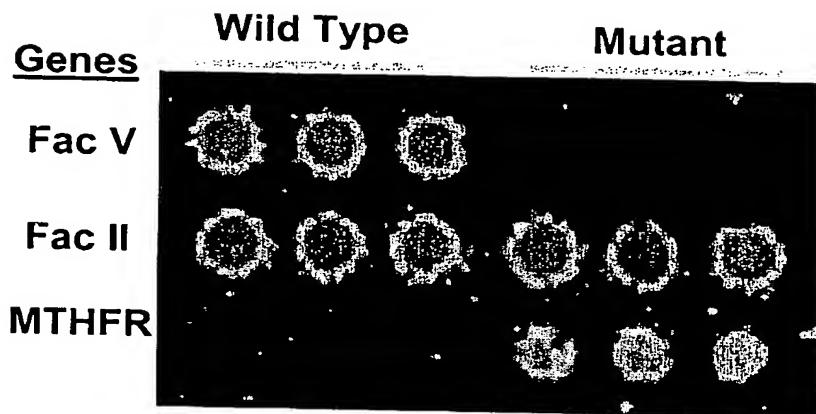


FIG. 15

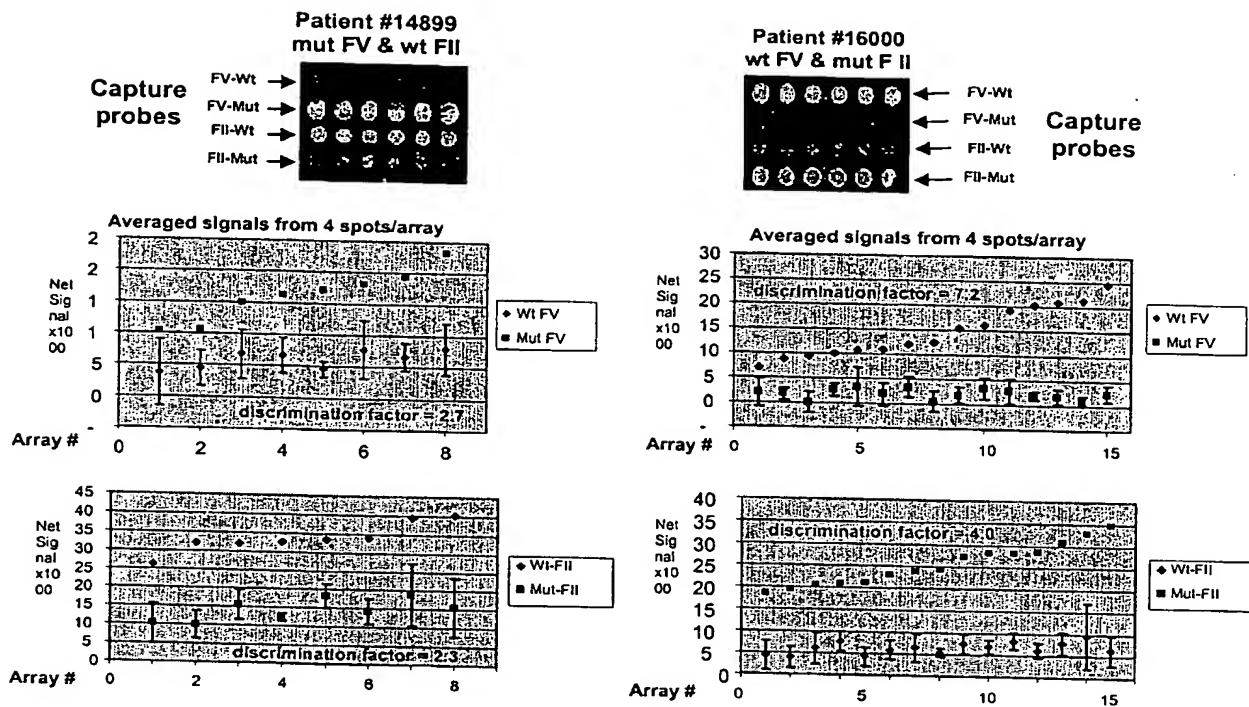
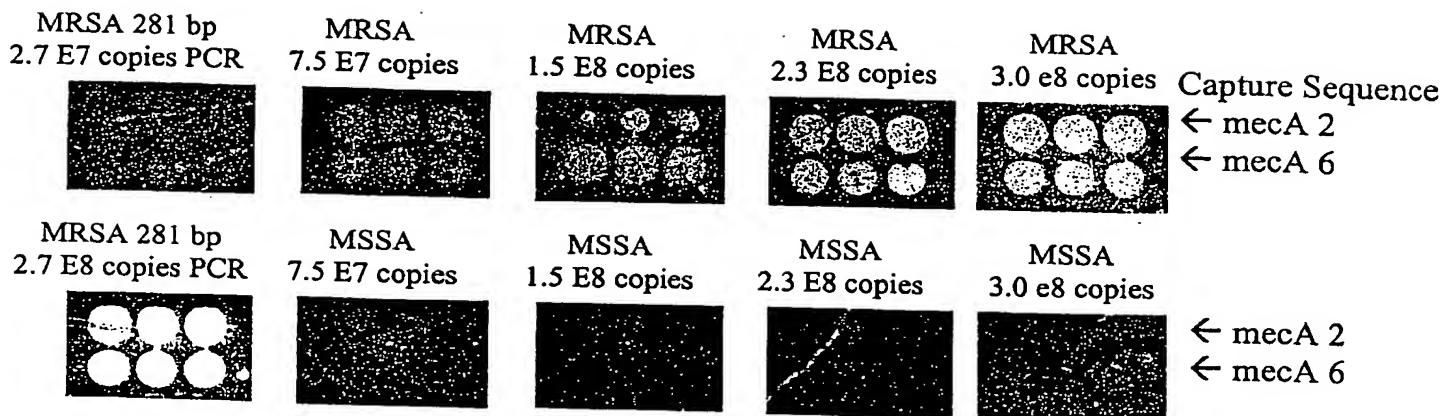


FIG. 16

A



B

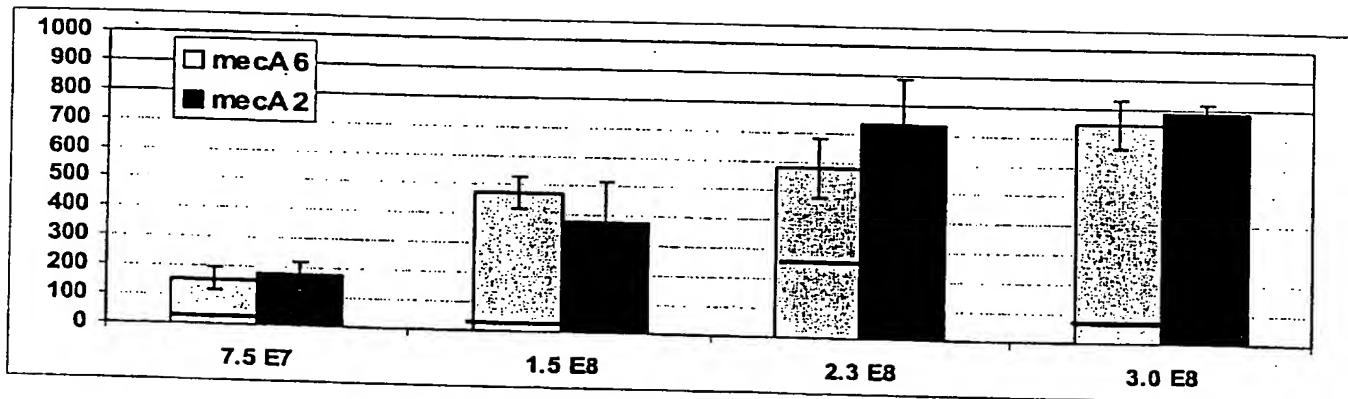


FIG. 17

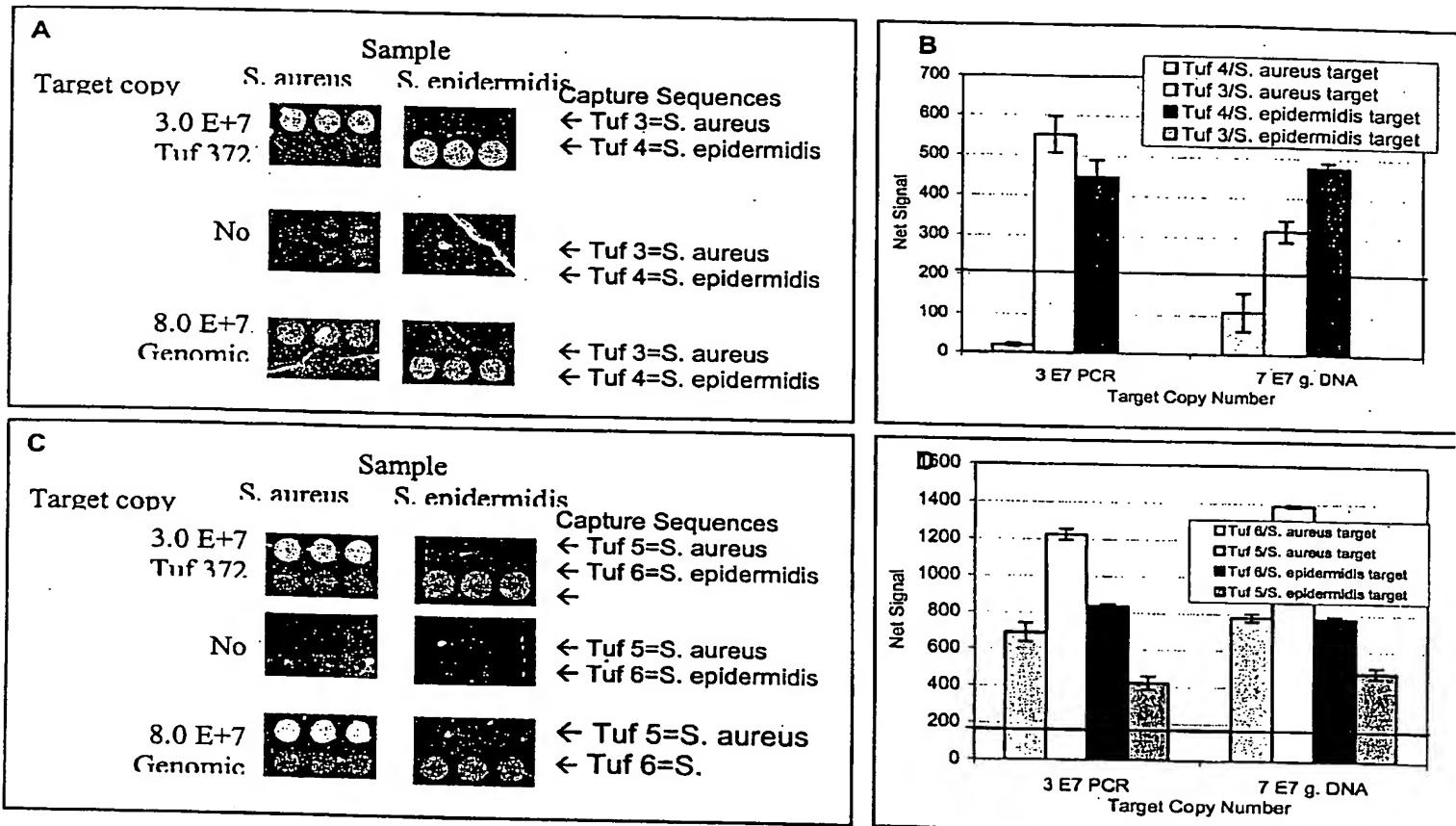


FIG. 18

Name	Template	Species	gene	Length	Sequence 5' → 3' (coding strand)
mecA 281	<i>S. aureus</i>		<i>mecA</i>	281	ATCCACCCCTCAAACAGGTGAATTATTAGCATTGTAAGCACACCTCATATGACGTCTATCCATTATGTATGGCATG AGTAACGAAGAAATAATAAAATTAAACCGAAGATAAAAAAGAACCTCTGCTCAAGTCATCCAGATTACAACATTCAACC AGGTTCAACTCAAAAAATATTAACAGCAATGATTGGTTAAATAACAAAACATTAGACGATAAAACAAGTTATAAAA TCGATGGTAAAGGGTGGCAAAAGATAAACTTGGGTGGTACAACGT
Coa	<i>S. aureus</i>		coagulase	480	CGAGACCAAGATTCAACAAGCCAAGTGAAACAAATGCATACAAACGTAACGACAAATCAAGATGGCACAGTATCATA GGAGCTGCCAACACAAAAGCCAAGTGAAAAAACGCATATAACGTAACAAACACATGCAAATGGTCAAGTATCA TACGGTCTGCCAACACAAAAGCCAAGGCAAAACAAATGCATACAAACGTAACAAACACATGCAAATGGTCAAGT TCATATGGCGCTGCCGACACAAAAAGCCAAGGCAAAACAAATGCATATAACGTAACAAACACATGCAAATGGTCA AGTATCATACGGAGCTGCCGACATACAAGAAGCCAAGGCAAAACAAATGCATACAACGTAACAAACACATGCAAATG GTCAAGTATCATATGGCGCTGCCGACACAAAAAGCCAAGGCAAAACAAACGCAATAACGTAACAAACACATGCAAATG GATGGTACTGCGACAT
Tuf 142	<i>S. aureus</i>		<i>Tuf</i>	142	TGGTCAAGTATTAGCTGCCCTGGTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATCAAAA GACGAAGGTGGACGTACACTCCATTCTCARACTATCGTCCACAATTCTATTCCGTACTAC
Tuf 372	<i>S. aureus</i>		<i>Tuf</i>	372	TGATGCCRGTTGAGGACGTATTCTCAATCACTGGTCGTTGACTGTTGCTACAGGCCGTGTTGAAACGTGGTCAAATC AAAGTTGGTGAAGAAGTTGAAATCATCGGTTACATGACACATCTAAACAACTGTTACAGGTGTTGAAATGTTCCG TAAATTATTAGACTACGCTGAAGCTGGTACAACACATTGGTGCATTATTACGTGGTGGTCTCGTGAAGACGTACAAC GTGGTCAAGTATTAGCTGCCCTGGTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATCAAAA GACGAAGGTGGACGTACACTCCATTCTCARACTATCGTCCACAATTCTATTCCGTACTAC
Tuf 372	<i>S. epidermidis</i>		<i>Tuf</i>	372	TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTCGTTGACTGTTGCTACAGGCCGTGTTGAAACGTGGTCAAATC AAAGTTGGTGAAGAAGTTGAAATCATCGGTTACATCGGTATGACGAAACTCTAAACAACTGTTACTGGTGTAGAAATGTTCCG TAAATTATTAGACTACGCTGAAGCTGGTACAACACATTGGTGCATTATTACGTGGTGGTCTCGTGAAGACGTACAAC GTGGTCAAGTATTAGCTGCCCTGGTCAATTACACCACACAAAATTCAAAGCAGAAGTATACGTATTATCTAAA GATGAAGGTGGACGTACACTCCATTCTCARACTATCGCCCACAATTCTATTCCGTACTAC
Tuf 372	<i>S. saprophyticus</i>		<i>Tuf</i>	372	TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTCGTTGACTGTTGCTACAGGCCGTGTTGAAACGTGGTCAAATC AAAGTCGGTGAAGAAGTTGAAATCATCGGTTACATCGGTATGACGAAAGAAATCAAGCAAAACAACTGTTACTGGTGTAGAAATGTT CCGTAATTATTAGACTACGCTGAAGCTGGTACAACACATTGGTGCATTATTACGTGGTGGTCTCGTGAAGACGTACAAC AACGTGGTCAAGTTTAGCTGCCCTGGTACTATCACACCACACAAAATTCAAAGCAGAAGTATACGTATTATCTAAA AAAGATGAAGGTGGCGTACGCCATTCTCARACTATCGCCCACAATTCTATTCCGTACTACTGAC
16S	<i>Staphylococcus</i>		16S	451	CGCCCGCGTGGAGTGTGAAGGTCTTGGATCGTAAACTCTGTTATTAGGAAAGAACAAACGTGTAAGTAACGTGCA CGTCTTGACGGTACCTAATCAGAAAGCCACGGCTAACTACGTGCCAGCGCCGCGTAATACGTAGGTGGCAAGCGT TATCCGGAAATTATTGGCGTAAAGCGCGCGTAGGCGGTTTTAAGTCTGATGTGAAAGCCCACGGCTAACCGTGG AGGGTCATTGGAAACTGGAAAATTGAGTGCAGAAGAGGAAAGTGGAAATTCCATGTGTAGCGGTGAAATGCCAGAG ATATGGAGGAACACCAGTGGCGAAGGGCGACTTCTGGTCTGTAACGTGACGCTGATGTGCGAAAGCGTGGGGATCAA CAGGATTAGATACCCCTGGTAGTCCACGCCGTAACGATGAGTGTCAAGTGTAGGGGGTTCCGCG

FIG. 19

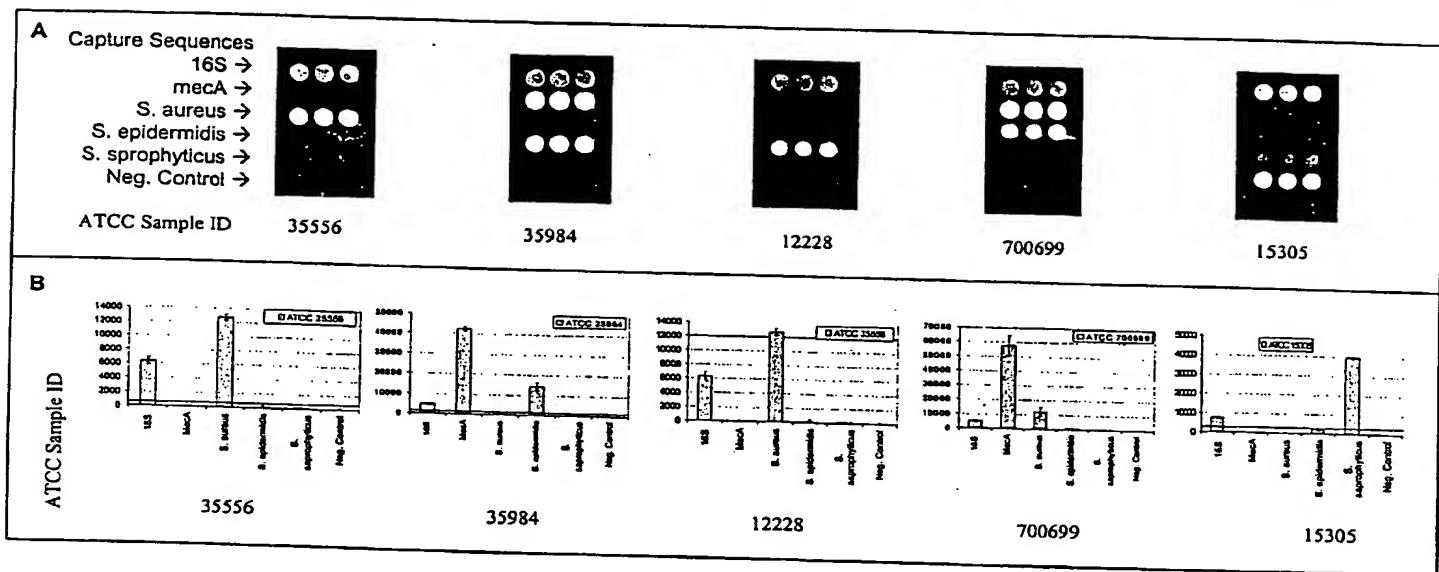


FIG. 20

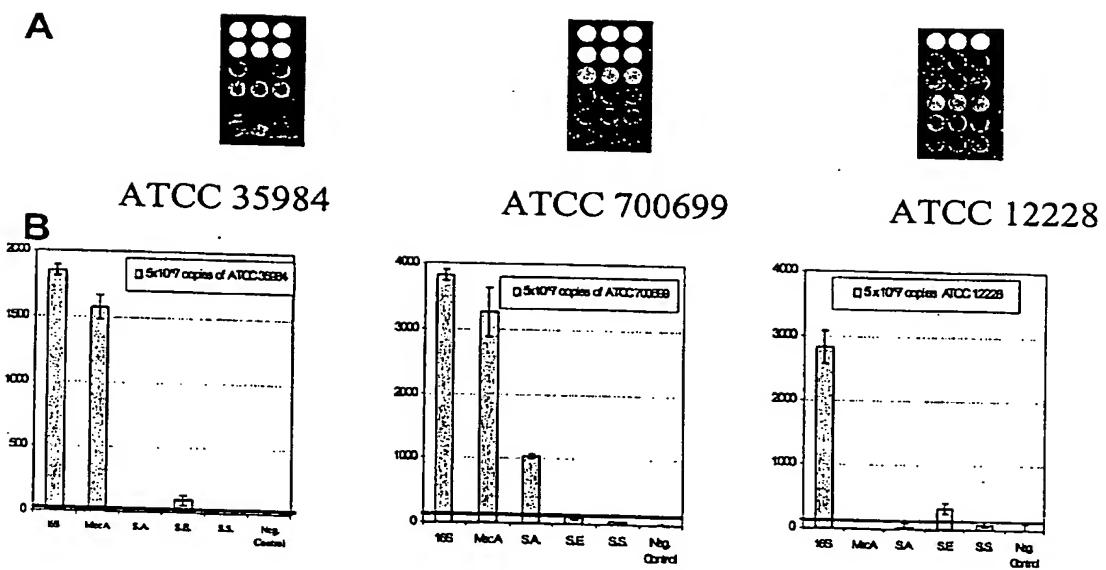


FIG. 21

